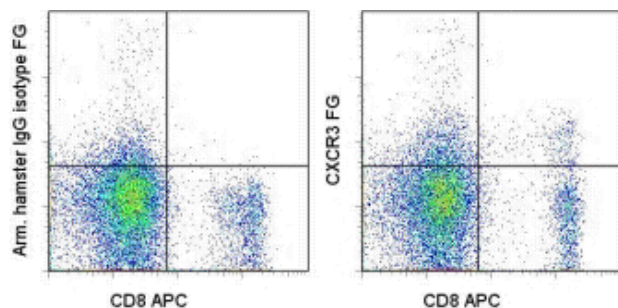


Anti-Mouse CD183 (CXCR3) Functional Grade Purified

Catalog Number: 16-1831

Also Known As: C-X-C chemokine receptor type 3, IP-10 receptor

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57Bl/6 splenocytes with Anti-Mouse CD8a APC (cat. 17-0081) and 0.25 ug of Armenian Hamster IgG Isotype Control Functional Grade Purified (cat. 16-4888) (left) or 0.25 ug of Anti-Mouse CD183 (CXCR3) Functional Grade Purified (right) followed by Anti-Armenian Hamster IgG PE (cat. 12-4112). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD183 (CXCR3) Functional Grade Purified

REF **Catalog Number:** 16-1831

Clone: CXCR3-173

Concentration: 1 mg/mL


Host/Isotype: Armenian Hamster IgG

Handling Conditions: Use in sterile environment.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

The monoclonal antibody CXCR3-173 recognizes mouse CD183 also known as CXCR3. CD183 is a seven transmembrane G-protein like chemokine receptor which binds three ligands; CXCL9 (mig), CXCL10 (IP-10) and CXCL11 (ITAC). CD183 has been shown to play a role in CD4 T cell responses to grafts. CXCR3 knockout mice have compromised allograft rejection responses. Expression is found on NK cells, a subset of T lymphocytes and a subset of Tregs as well as preferential expression on Th1-polarized cells.

The antibody CXCR3-173 has been shown to affect chemotaxis in response to ligand. The presence of ligand eliminates staining with the antibody. *In vivo* addition of the antibody delays cardiac and pancreatic islet allograft rejection.

Applications Reported

This CXCR3-173 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This CXCR3-173 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Uppaluri R, Sheehan KC, Wang L, Bui JD, Brotman JJ, Lu B, Gerard C, Hancock WW, Schreiber RD. Prolongation of Cardiac and islet allograft survival by a blocking hamster anti-mouse CXCR3 monoclonal antibody. *Transplantation*. 2008 Jul 15;86(1):137-147. (CXCR3, FA, FC PubMed)

Morimoto Y, Bian Y, Gao P, Yashiro-Ohtani Y, Zhou XY, Ono S, Nakahara H, Kogo M, Hamaoka T, Fujiwara H. Induction of surface CCR4 and its functionality in mouse Th2 cells is regulated differently during Th2 development. *J Leukoc Biol*. 2005 Sep;78(3):753-61.

Related Products

12-4112 Anti-Armenian Hamster IgG PE (Polyclonal)

16-4888 Armenian Hamster IgG Isotype Control Functional Grade Purified (eBio299Arm)

17-0081 Anti-Mouse CD8a APC (53-6.7)

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